CLEAN VERSION OF PENDING CLAIMS

NEW RECEPTOR AND RELATED PRODUCTS AND METHODS

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5. A protein or soluble fragment thereof produced by

   a) introducing an expression vector into an appropriate transfection host cell, wherein the expression vector comprises a DNA encoding a protein having SEQ ID NO:2 or a soluble fragment thereof which is capable of specifically binding a cell membrane ligand for SEQ ID NO:2;

   (b) growing said transfected cell in appropriate culture media; and

   (c) purifying the protein or the soluble fragment thereof.

6. An isolated protein having the amino acid sequence of SEQ ID NO:2 or a fragment thereof which has the extracellular domain of SEQ ID NO:2.

24. A purified soluble H4-1BB polypeptide, wherein said polypeptide comprises the extracellular domain of SEQ ID NO:2 or a fragment of the extracellular domain which is capable of specifically binding a cell membrane ligand for SEQ ID NO:2.

26. A composition comprising a soluble H4-1BB polypeptide of claim 24 in admixture with a suitable diluent, carrier, or excipient.

27. A soluble H4-1BB protein produced by

a) introducing an expression vector into an appropriate host cell to yield a transfected host cell, wherein the expression vector comprises a DNA molecule encoding the extracellular domain portion of the full-length H4-1BB protein having SEQ ID NO:2 or a fragment of the extracellular domain which is capable of specifically binding a cell membrane ligand for SEQ ID NO:2;

b) recovering the soluble protein from the host cell.

28. The soluble H4-1BB protein of claim 27 wherein the DNA molecule comprises SEQ ID NO:1, SEQ ID NO:7, or SEQ ID NO:8.

29. The soluble H4-1BB protein of claim 27 wherein the DNA molecule encodes amino acid residues 1-186 of SEQ ID NO:2.

30. The soluble H4-1BB protein of claim 24 which is encoded by a DNA molecule comprising SEQ ID NO:1, SEQ ID NO:7, or SEQ ID NO:8.

31. The soluble H4-1BB protein of claim 24 which comprises amino acid residues 1-186 of SEQ ID NO:2.